

FIG.2

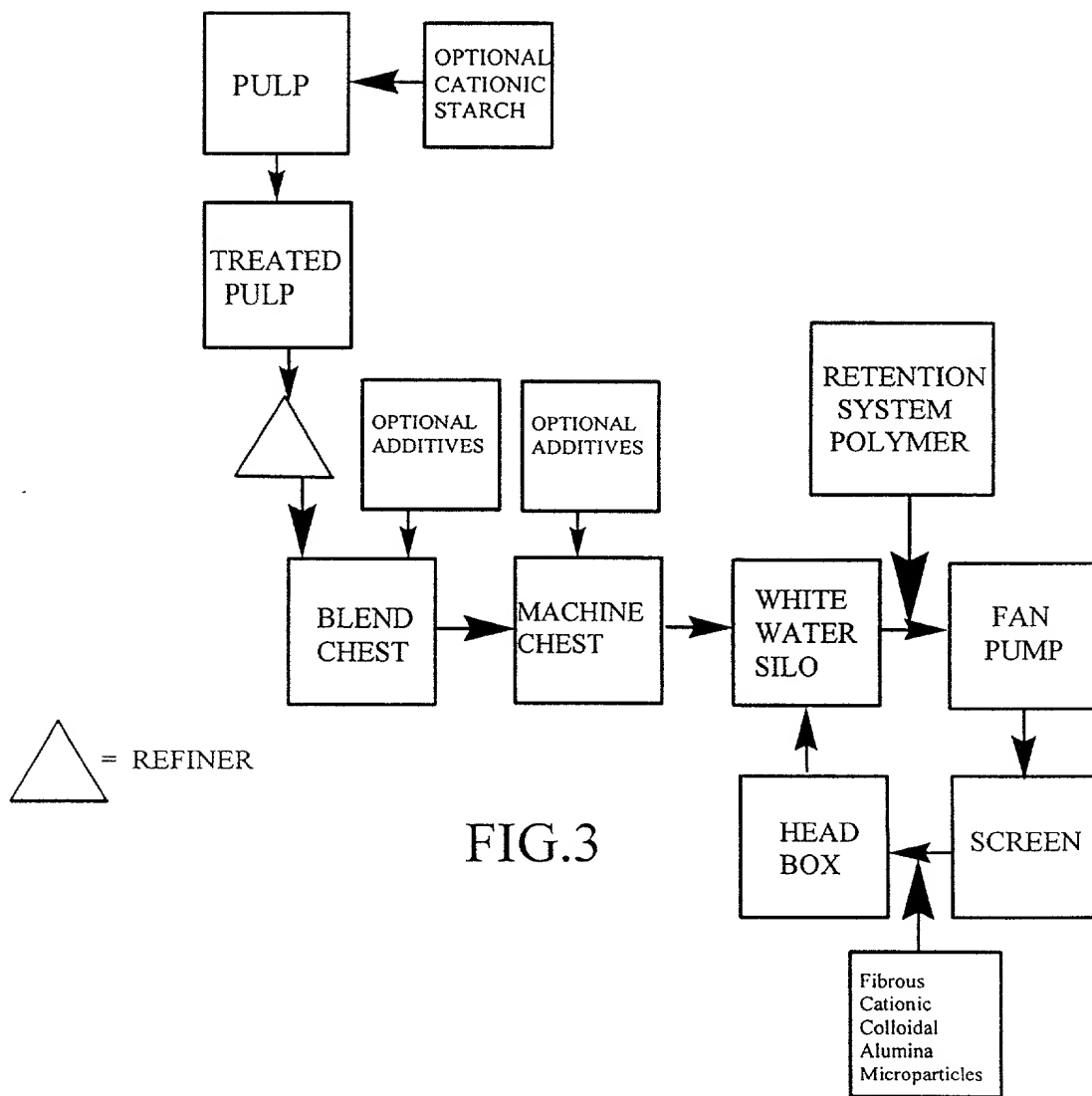


FIG.3

Newsprint - Turbidity

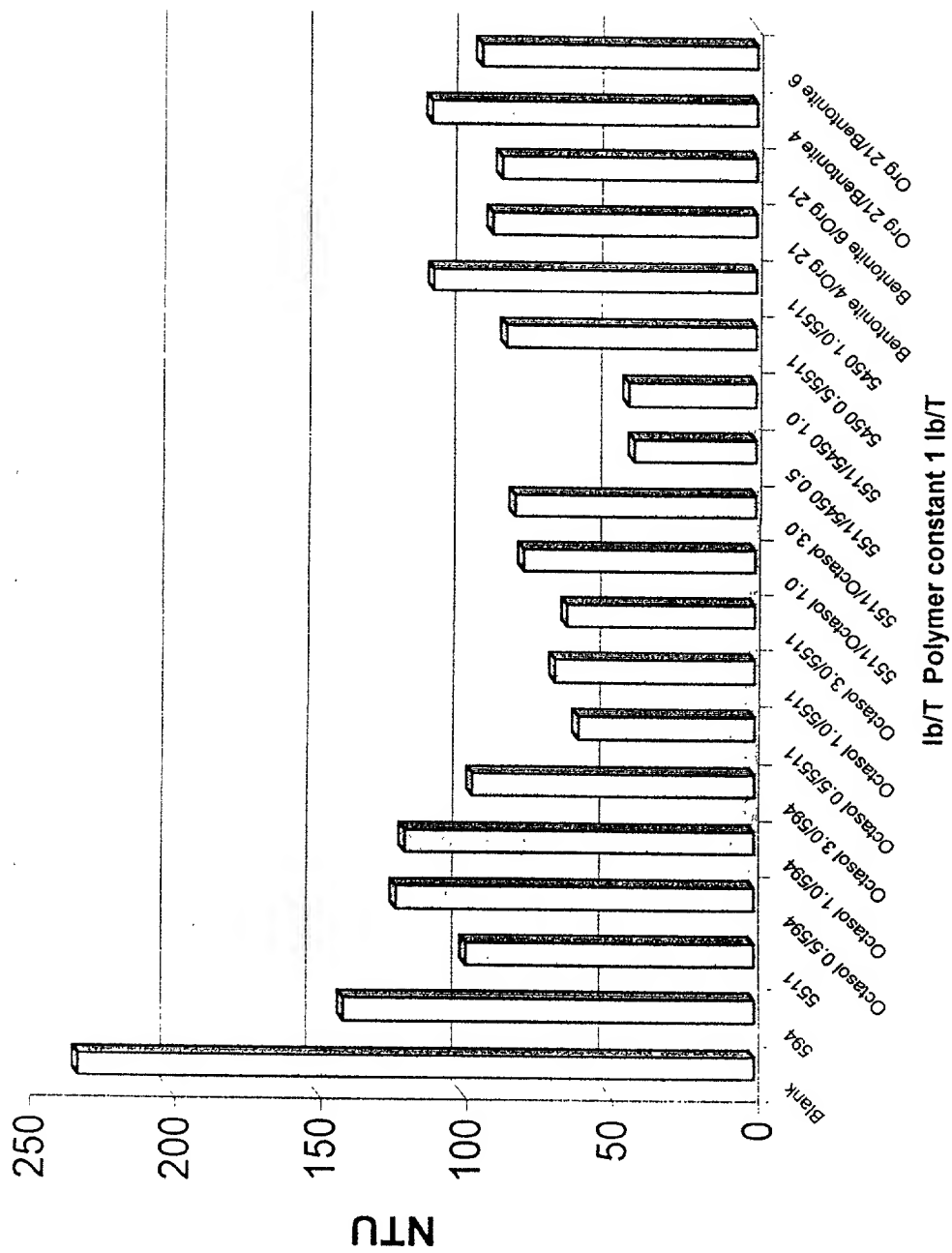


FIG. 4

Year	Age	Sex	Weight	Length	Wing	Tail	Bill	Foot	Middle toe	Claw	Weight	Length	Wing	Tail	Bill	Foot	Middle toe	Claw
1900	10	Male	100	180	110	100	15	20	15	10	100	180	110	100	15	20	15	10
1901	11	Female	110	190	120	110	16	21	16	11	110	190	120	110	17	22	16	11
1902	12	Male	120	200	130	120	17	22	17	12	120	200	130	120	18	23	17	12
1903	13	Female	130	210	140	130	18	23	18	13	130	210	140	130	19	24	18	13
1904	14	Male	140	220	150	140	19	24	19	14	140	220	150	140	20	25	19	14
1905	15	Female	150	230	160	150	20	25	20	15	150	230	160	150	21	26	20	15
1906	16	Male	160	240	170	160	21	26	21	16	160	240	170	160	22	27	21	16
1907	17	Female	170	250	180	170	22	27	22	17	170	250	180	170	23	28	22	17
1908	18	Male	180	260	190	180	23	28	23	18	180	260	190	180	24	29	23	18
1909	19	Female	190	270	200	190	24	29	24	19	190	270	200	190	25	30	24	19
1910	20	Male	200	280	210	200	25	30	25	20	200	280	210	200	26	31	25	20



FIG. 5

FIG. 6 is a bar chart showing the drainage time in seconds for various samples. The y-axis is labeled 'Seconds' and ranges from 0 to 70. The x-axis is labeled 'lb/T' and lists the samples: Blank, S511, Octasol 1.0/S511, S511/S450 1.0, Bentonite 4/Org 21, and Bentonite 6/Org 21. The drainage times are approximately: Blank (65s), S511 (40s), Octasol 1.0/S511 (35s), S511/S450 1.0 (15s), Bentonite 4/Org 21 (30s), and Bentonite 6/Org 21 (30s).

Drainage

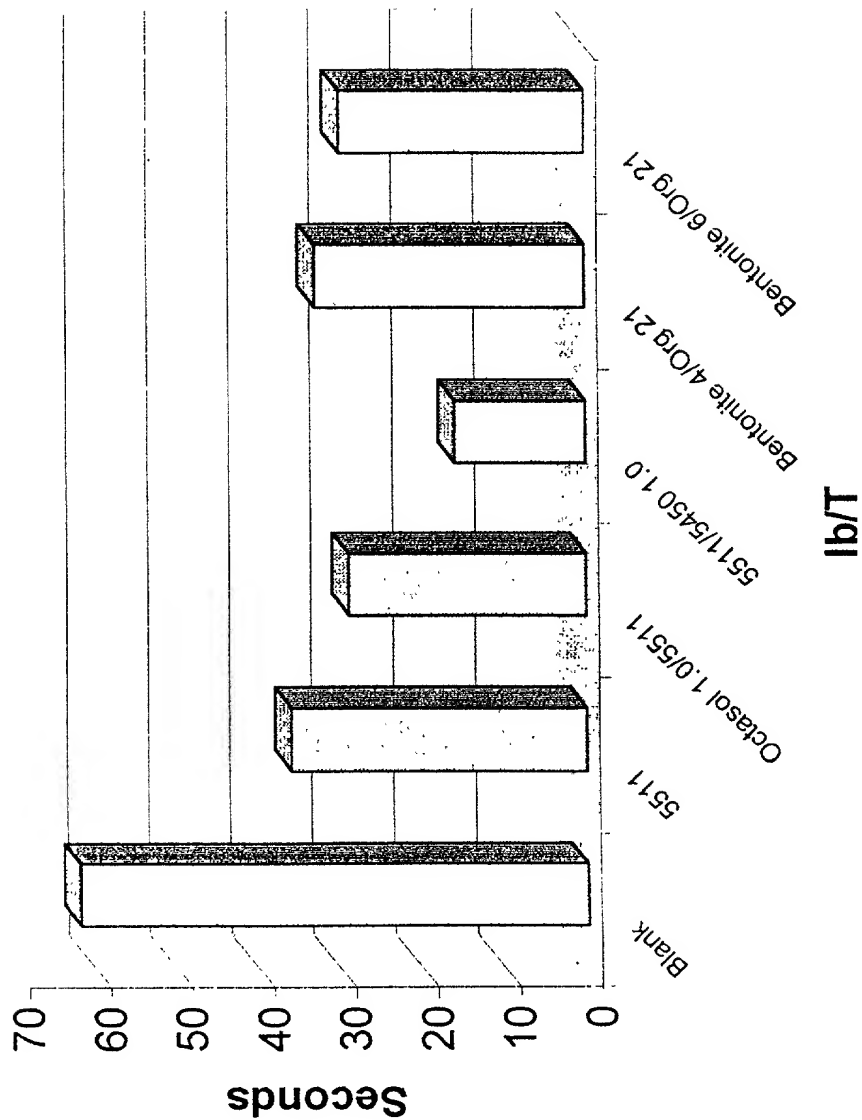


FIG. 6

Comparison against dual component system

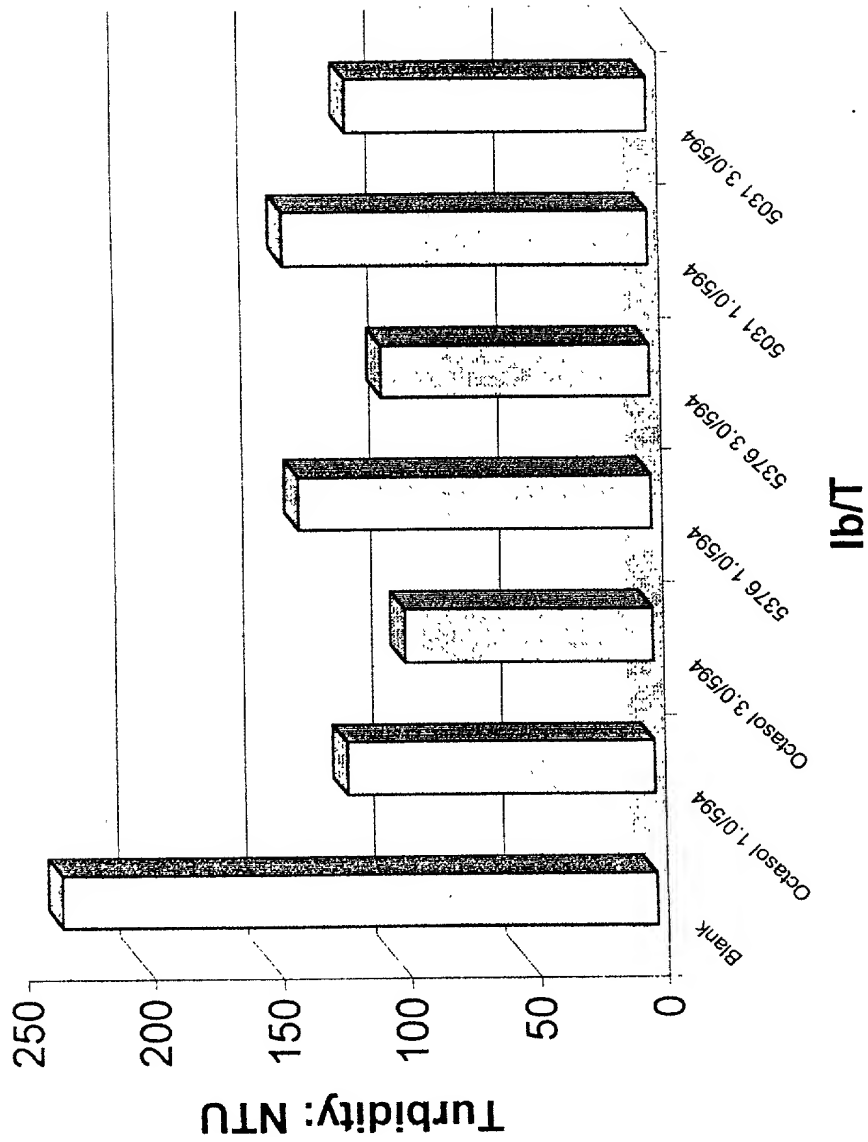


FIG. 7

Comparison against dual component system

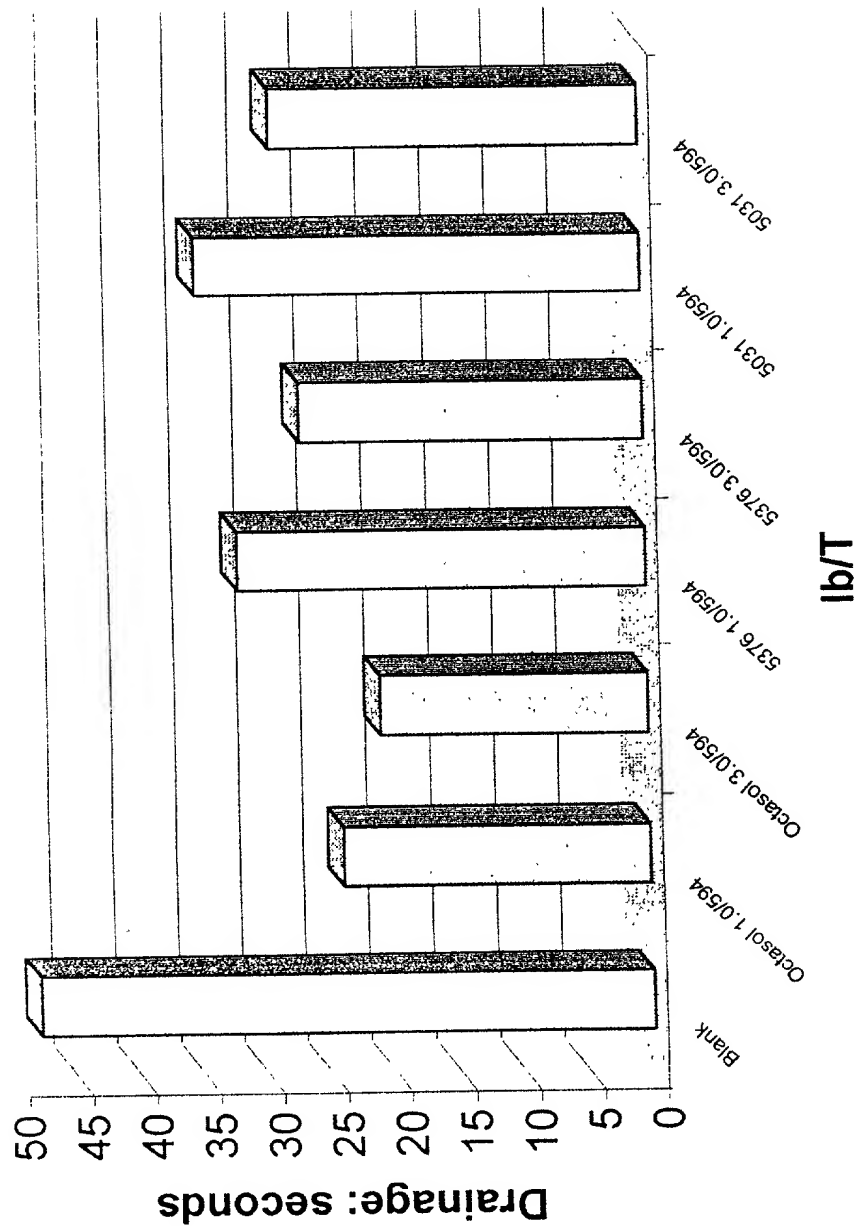


FIG. 8

Top ply

20% Hard whites
40% manfold white ledger
40% hogged (tabloid news)
cationic demand - 0.6 meq/l
pH - 7.9

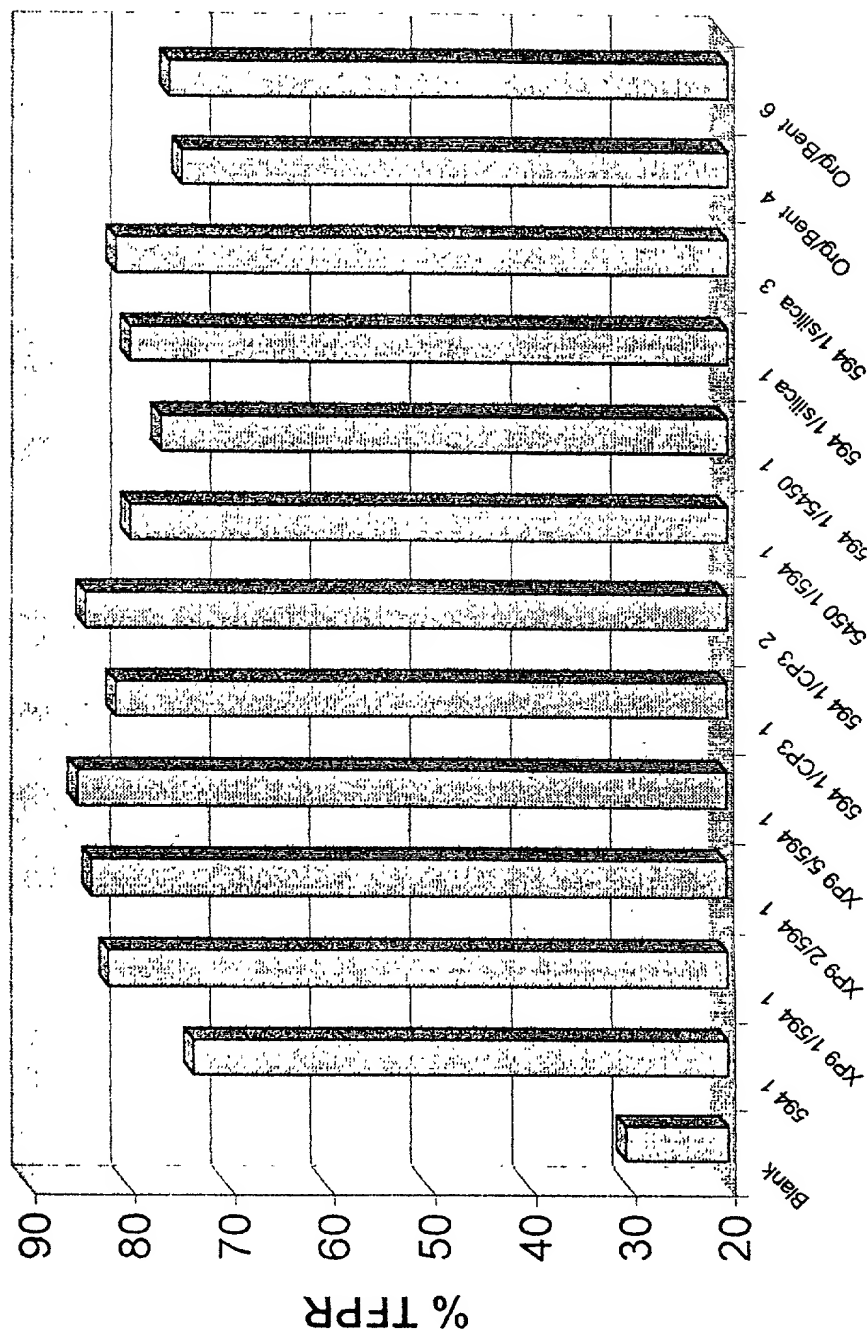


FIG. 9

20% Hard whites
 40% manifold white ledger
 40% hogged (tabloid news)
 cationic demand - 0.6 meq/l
 pH - 7.9

Top ply

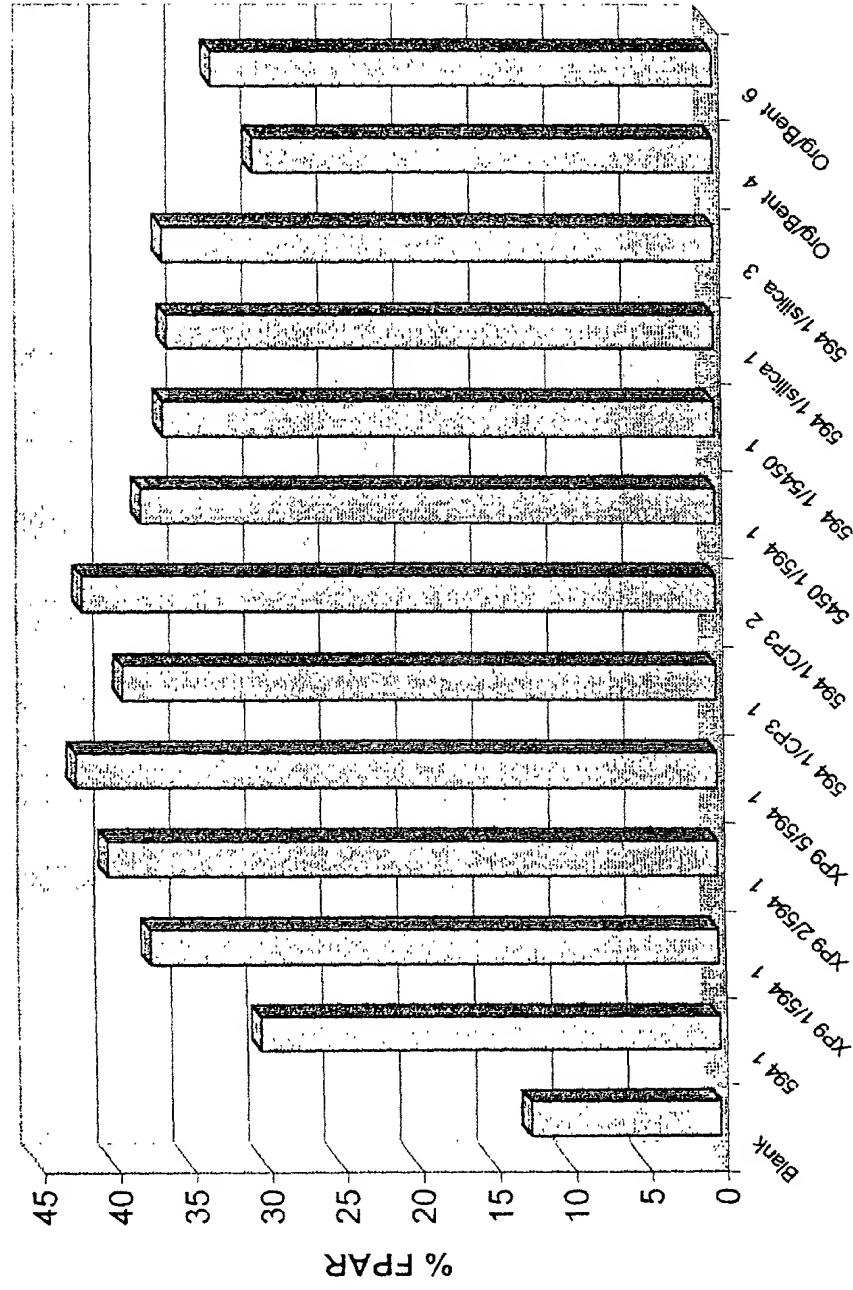


FIG. 10

30% Corrugated
 60% box
 10% ONP
 pH - 7.4
 Cationic demand - .4 meq/L

Filler ply

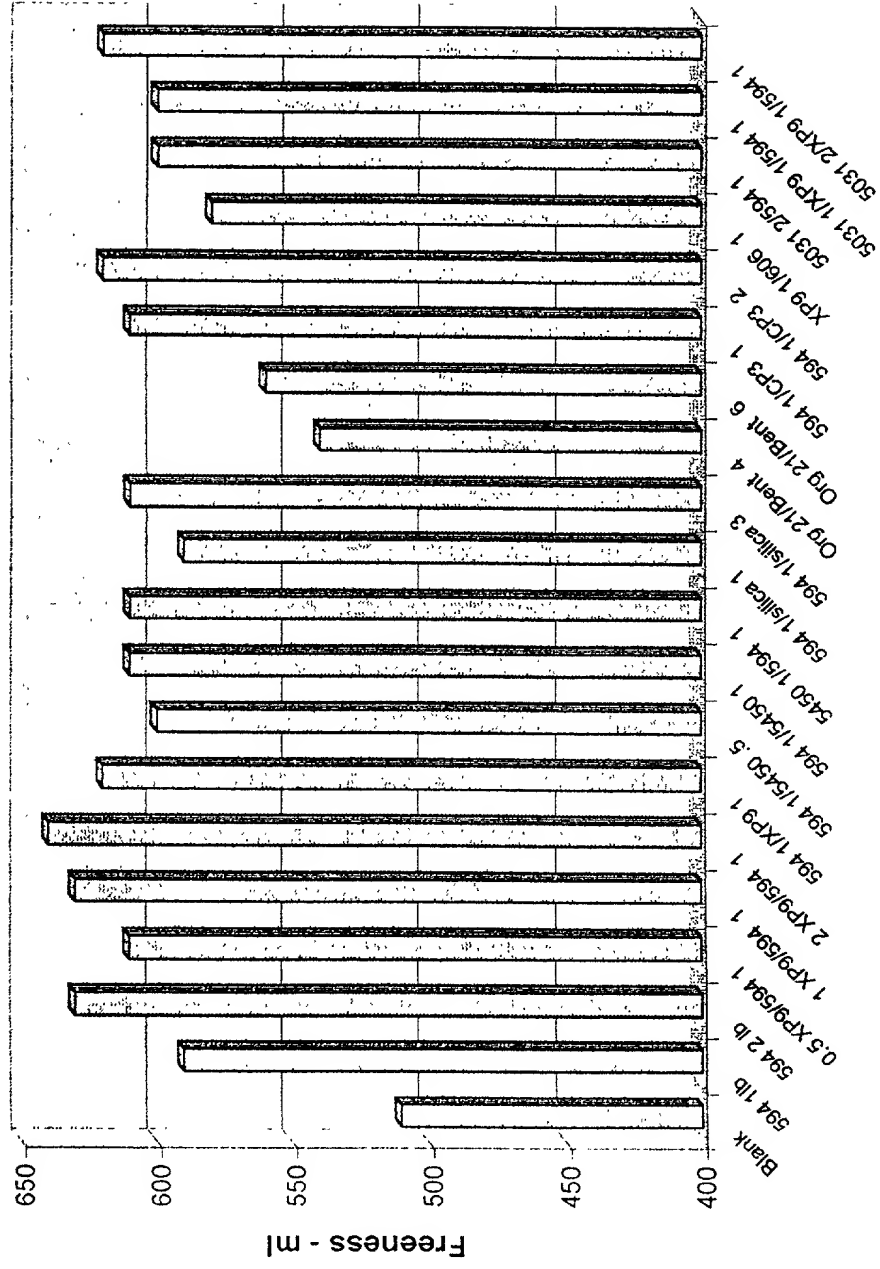


FIG. 11

100% ONP
 pH - 7.85
 Cationic demand - .55 meq/L

Back ply

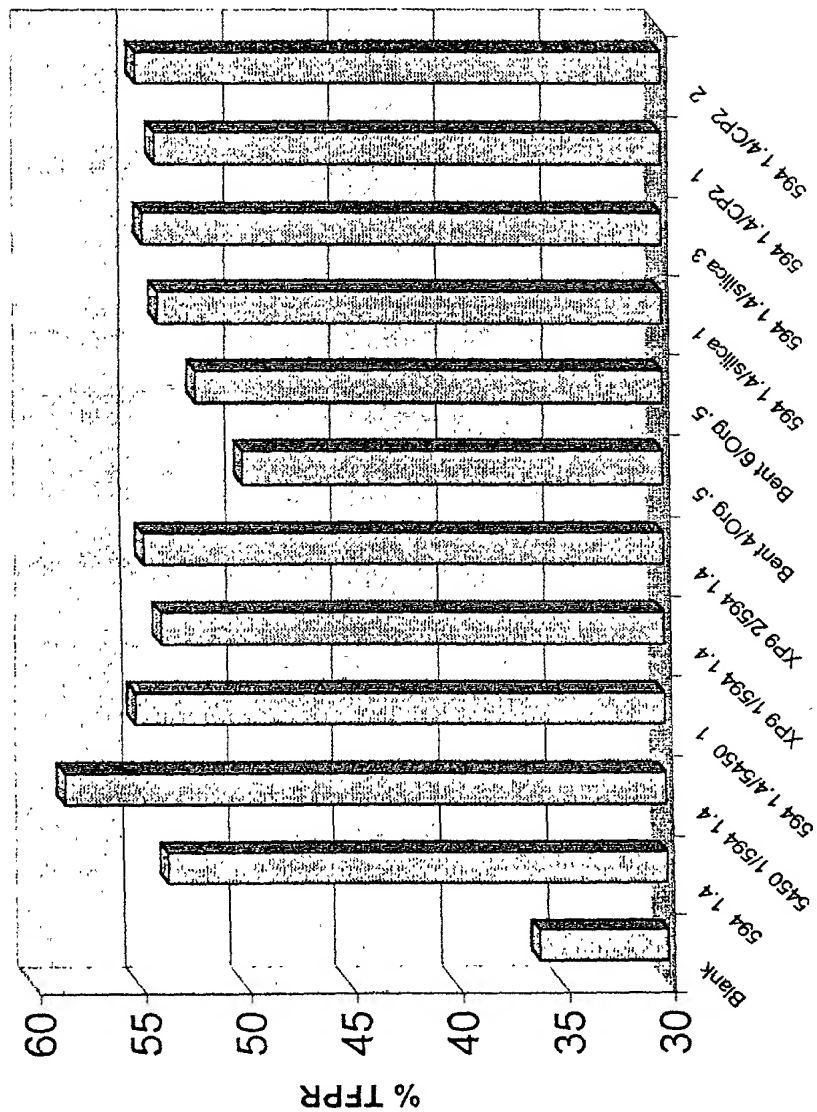


FIG. 12

15.5% Kraft blend
 36.8% Mgo HWD
 38.9% Fir
 8.8% Broke
 Conductivity: 1046
 pH - 8.6
 ASA - 2.1 lb/T
 PCC - 280 lb/T

TFPR:

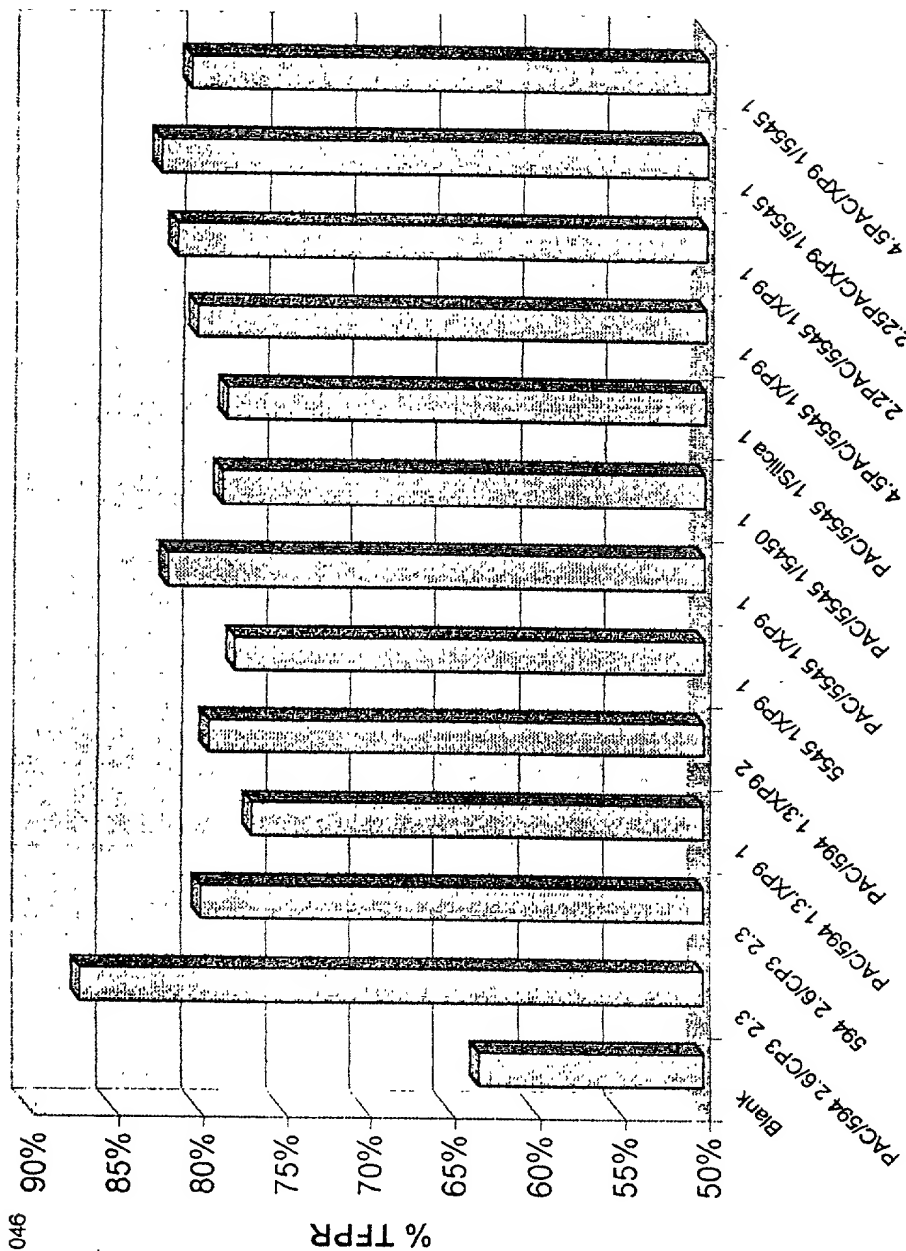


FIG. 13

15.5% Kraft blend
 36.8% MgO HWD
 38.9% Fir
 8.8% Broke
 Conductivity: 1046
 pH - 8.6
 ASA - 2.1 lb/T
 PCC - 280 lb/T

FPAR:

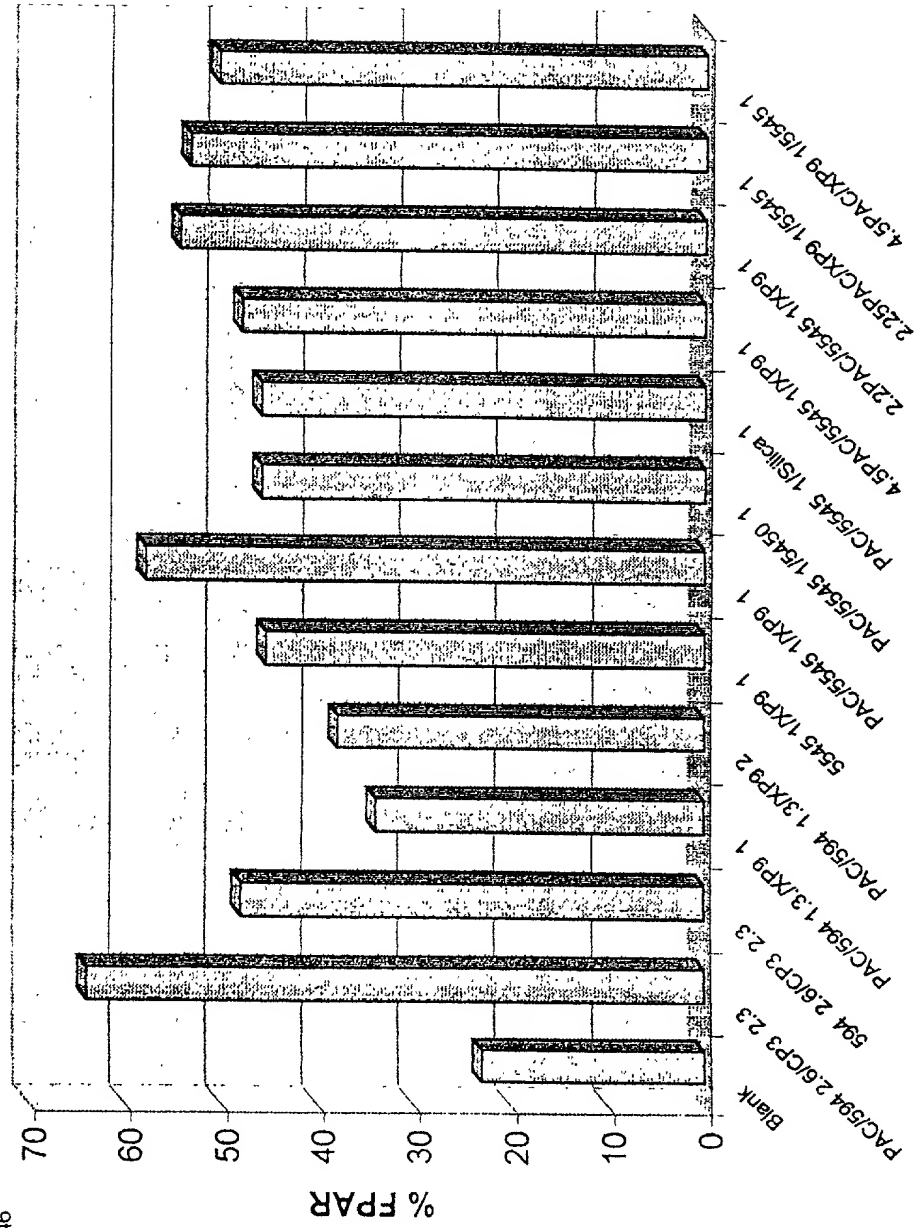


FIG. 14

15.5% Kraft Blend
 36.8% MgO HWD
 38.9% Fir
 8.8% Broke
 PCC - 280 lb/T
 ASA - 2.1 lb/T
 Conductivity 1005
 pH - 8.3

TFPR:

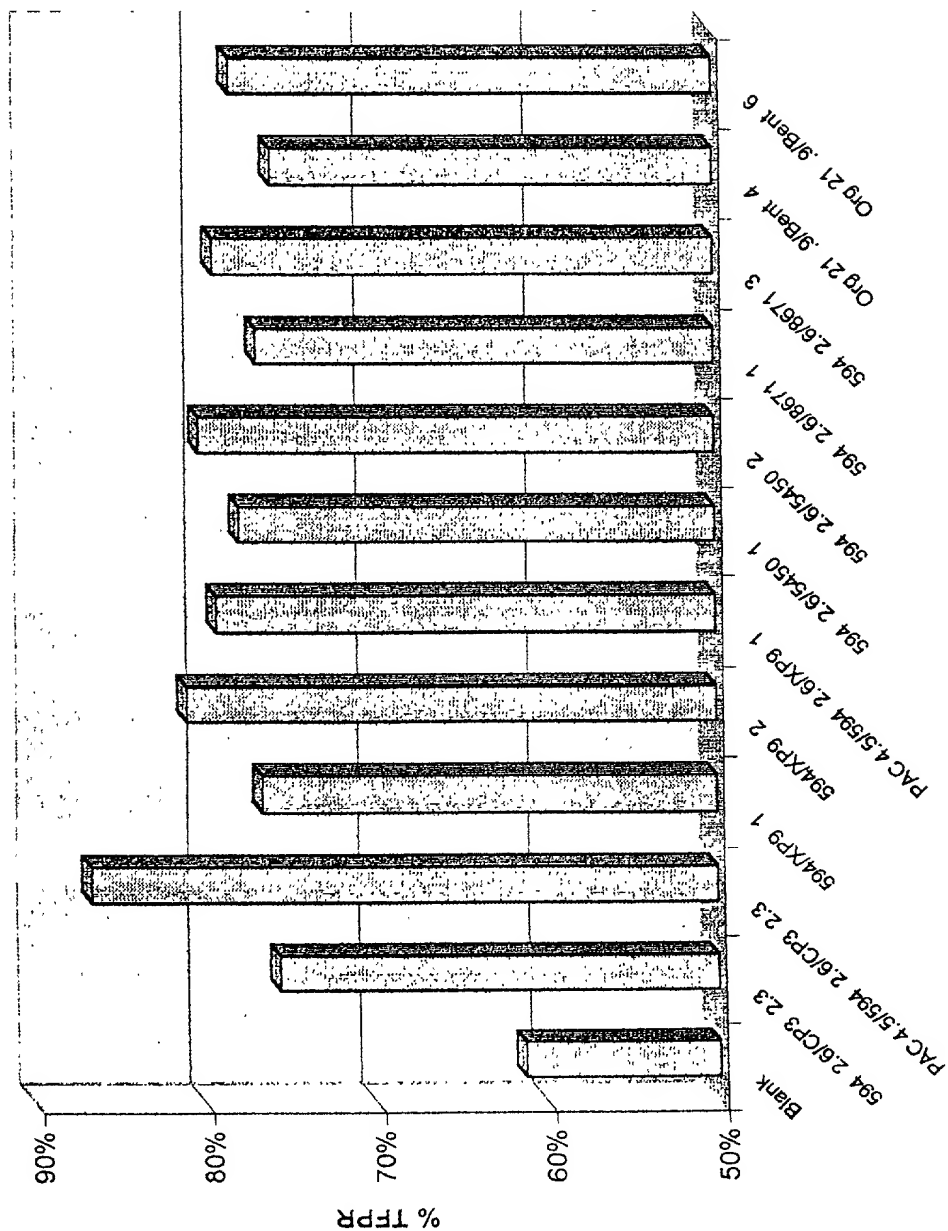


FIG. 15

15.5% Kraft Blend
 36.8% MgO HWD
 38.9% Fir
 8.8% Broke
 PCC - 280 lb/T
 ASA - 2.1 lb/T
 Conductivity 1005
 pH - 8.3

FPAR:

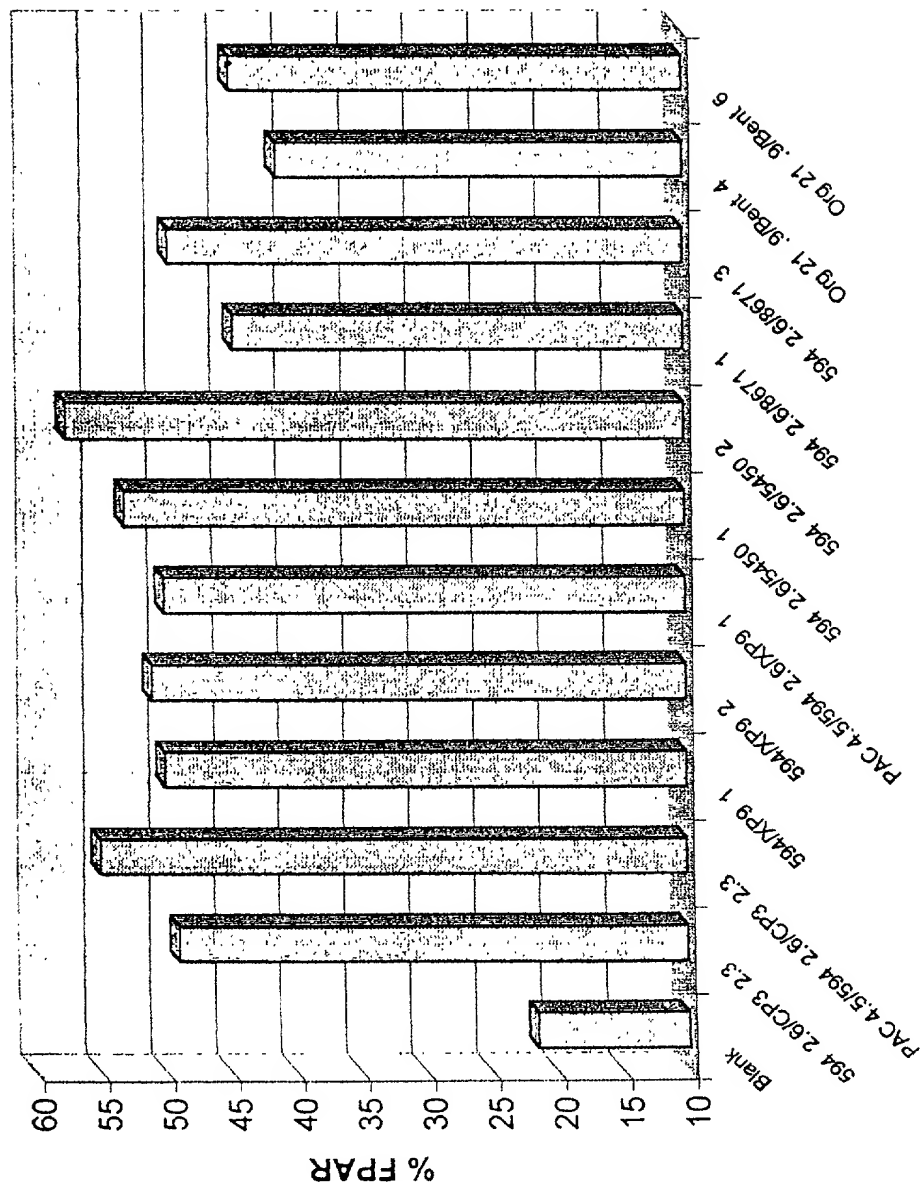


FIG. 16

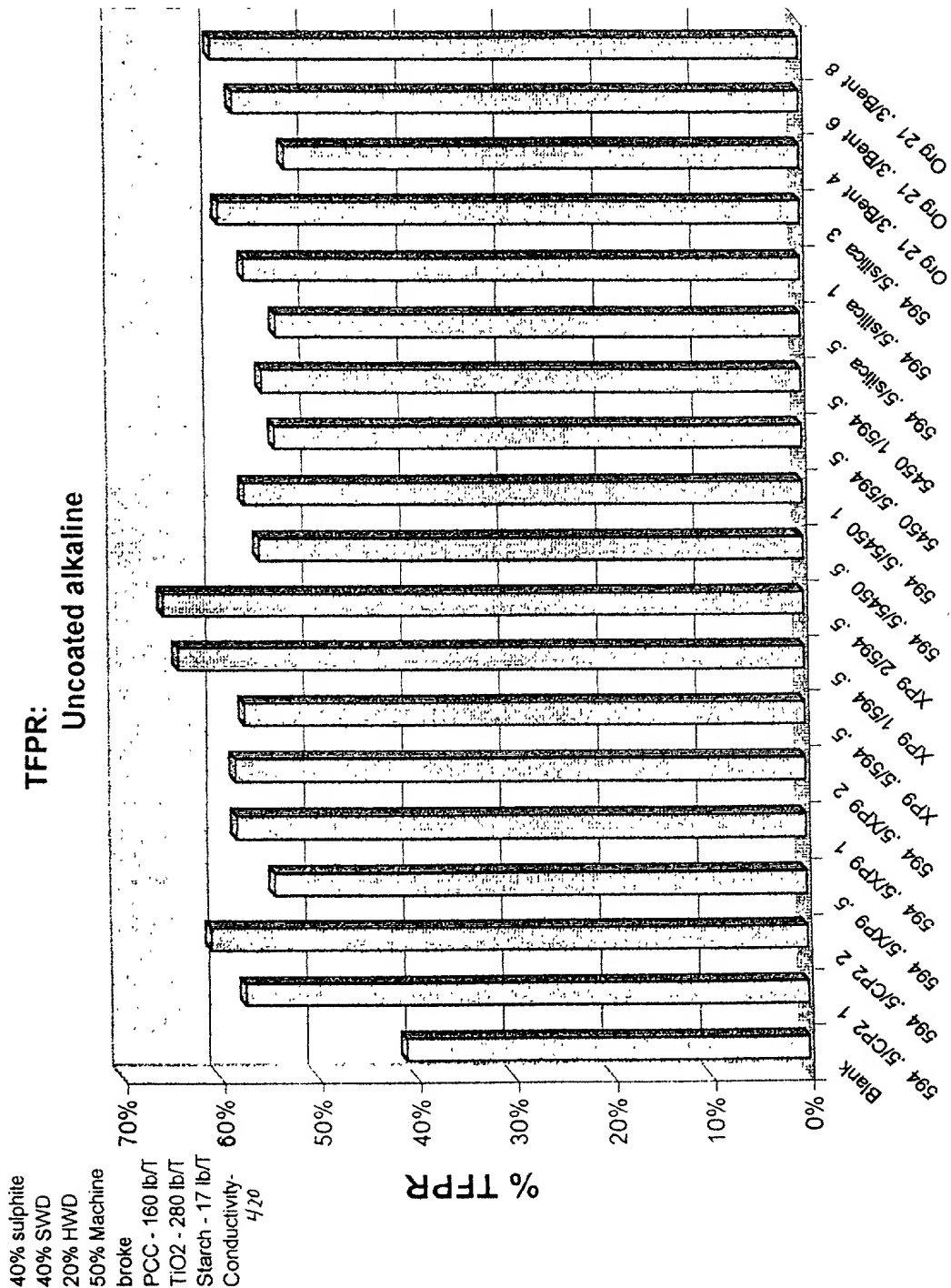


FIG. 17

FPAR:
Uncoated alkaline

broke

PCC - 160 lb/ft

TiO₂ - 280 lb/T

Starch - 17 lb/ft

Conductivity- 420

pH - 8.5

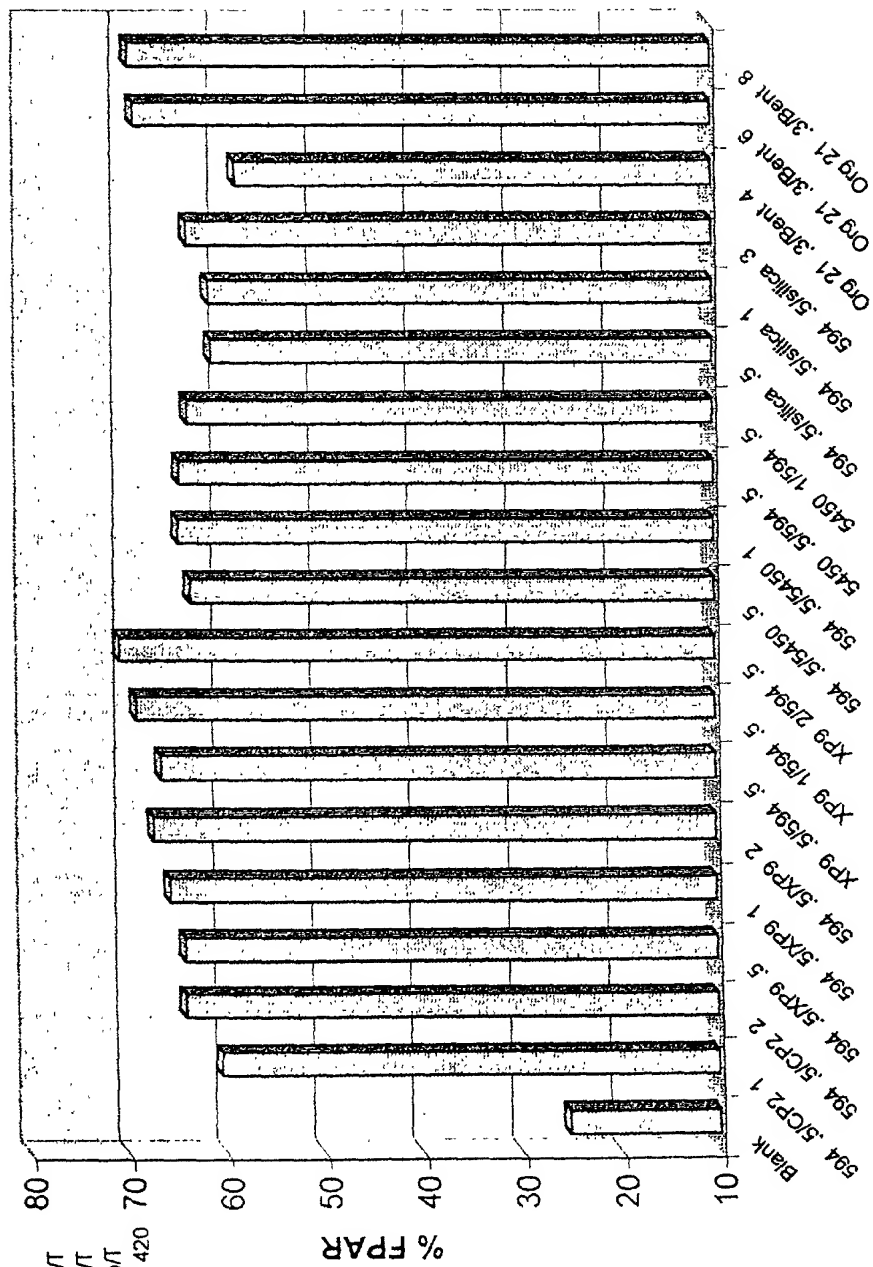


FIG. 18

40% GWD
 47% Sulphite
 13% SWD
 15% Machine broke
 20% Coated broke
 Filler - 15lb/t
 Starch - 25 lb/t
 Alum - 6 lb/t
 Conductivity -
 pH - 6.2
 Charge - .085 meq/l

TFPR:
Catalog - coated acid

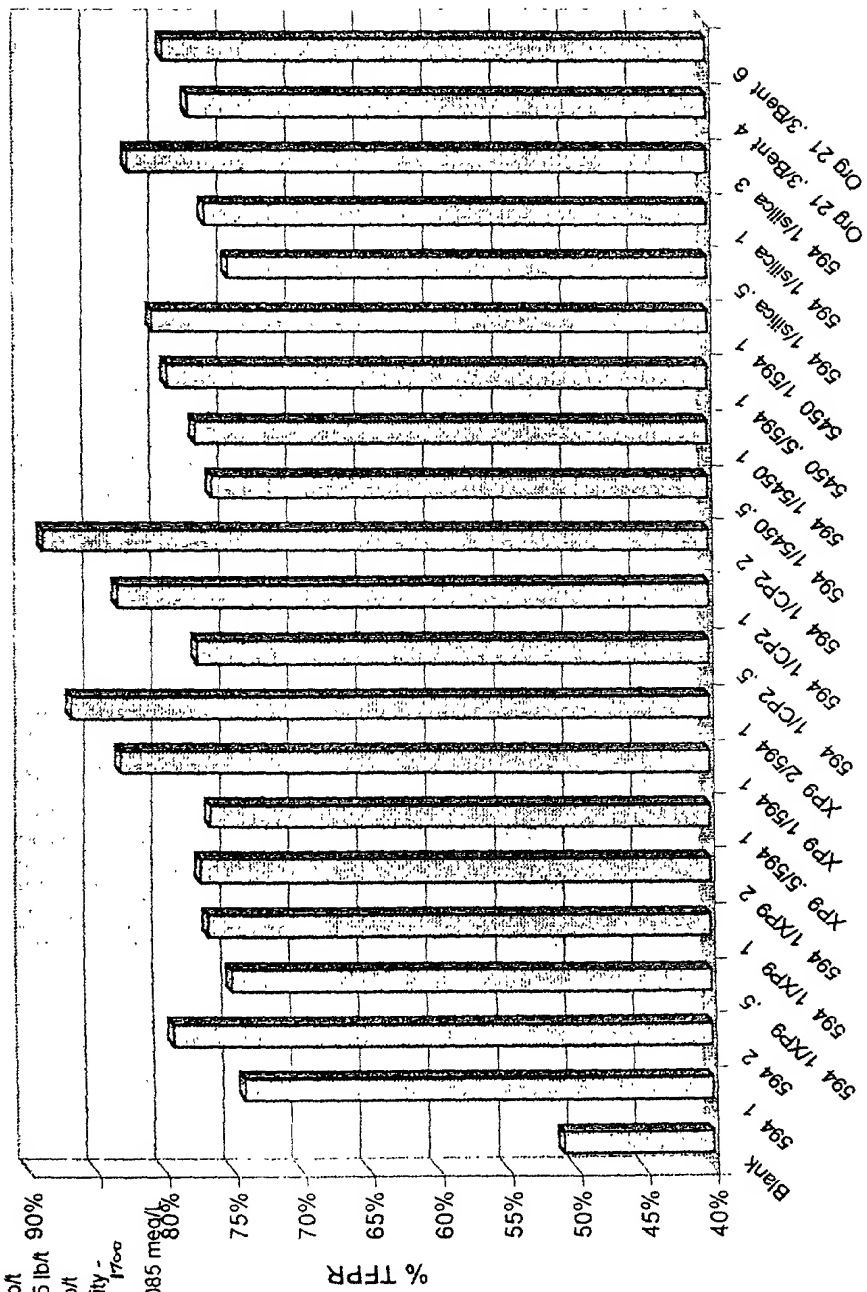


FIG. 19

www.fishbase.org

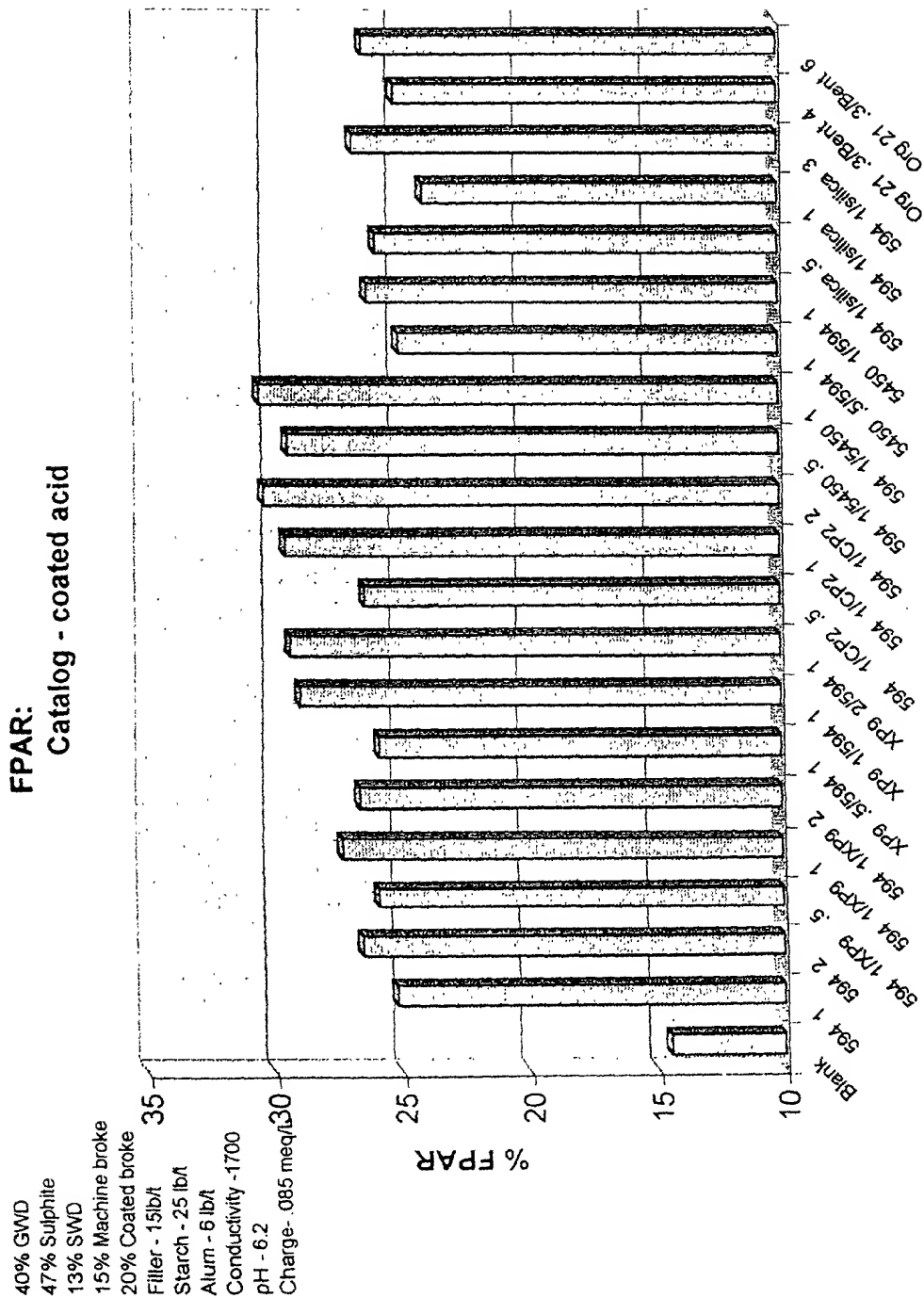


FIG. 20

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

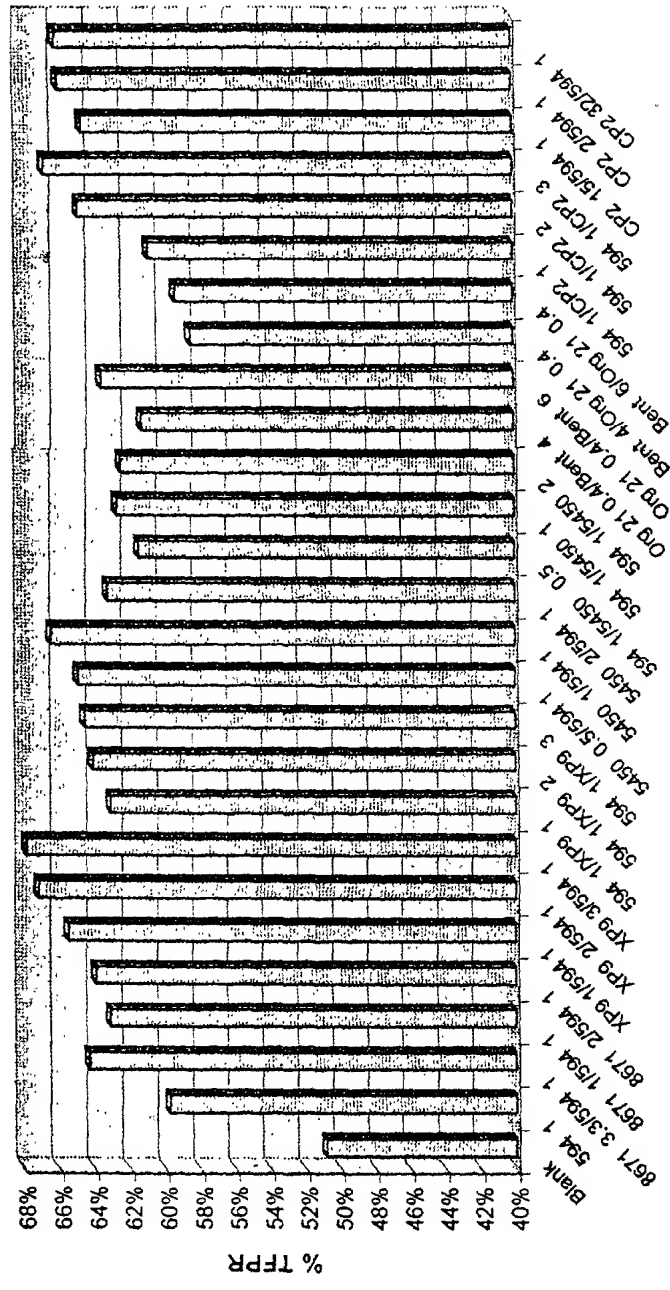


FIG. 21

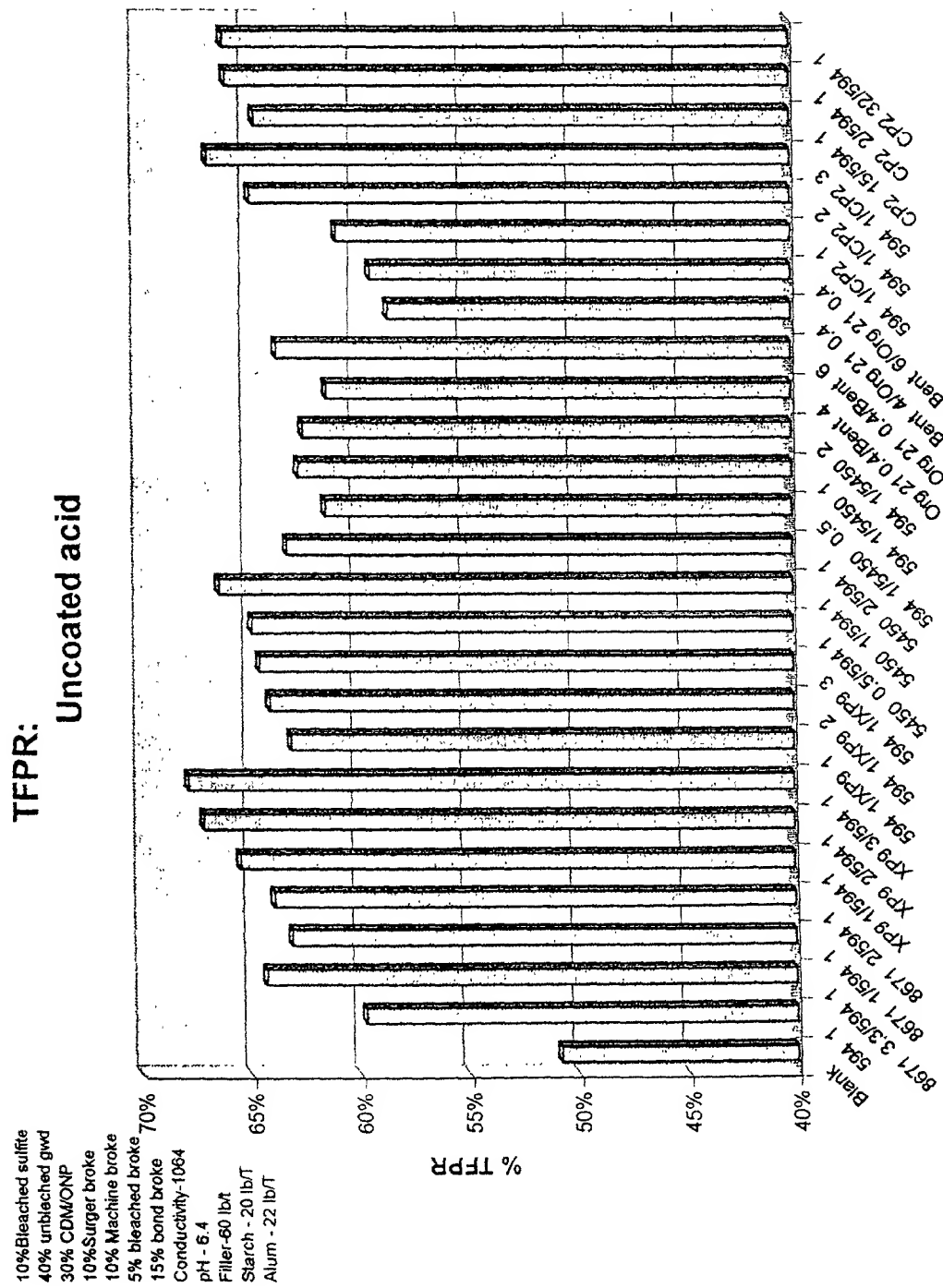


FIG. 22

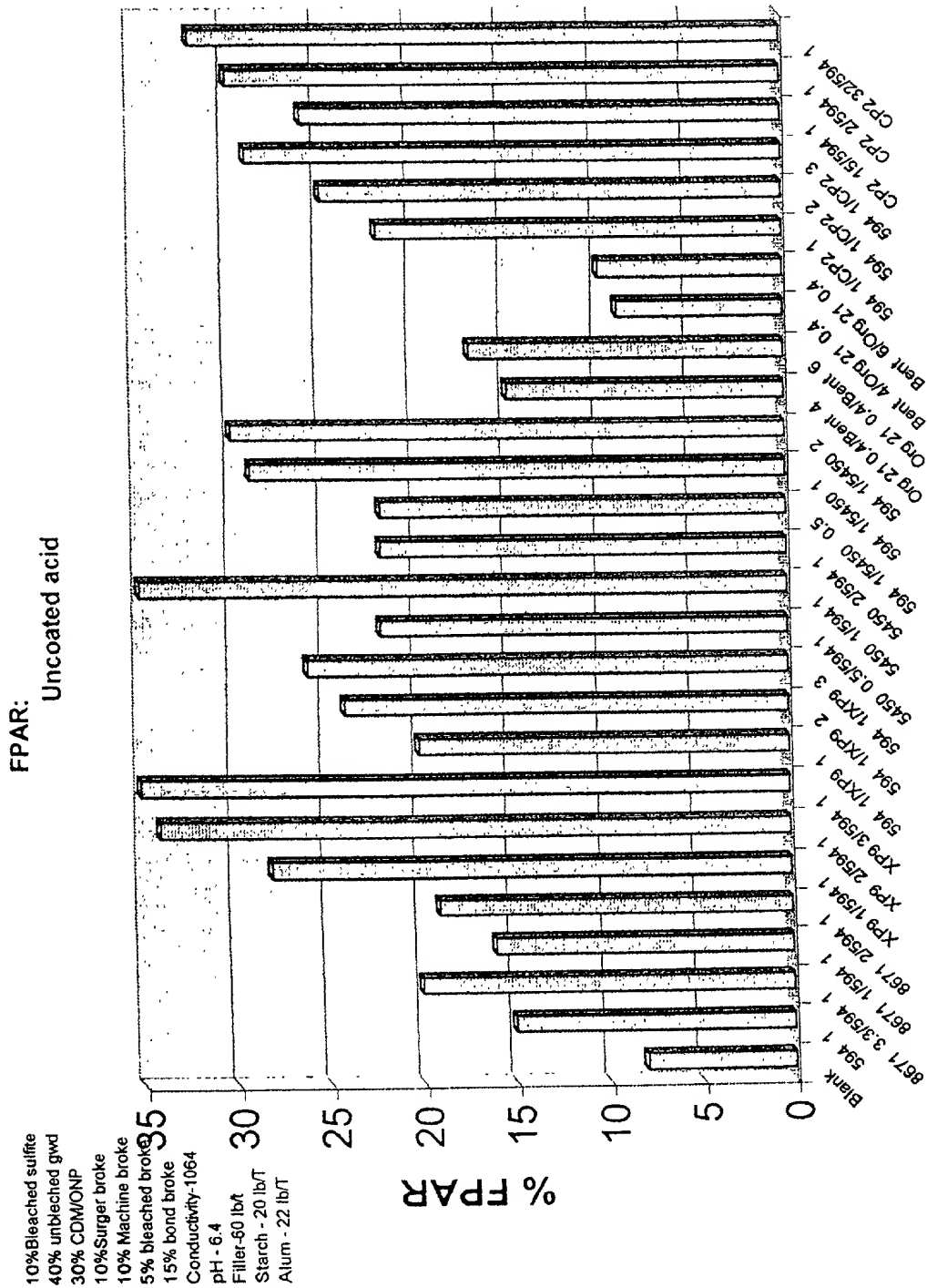


FIG. 23

Alkaline Fine Furnish

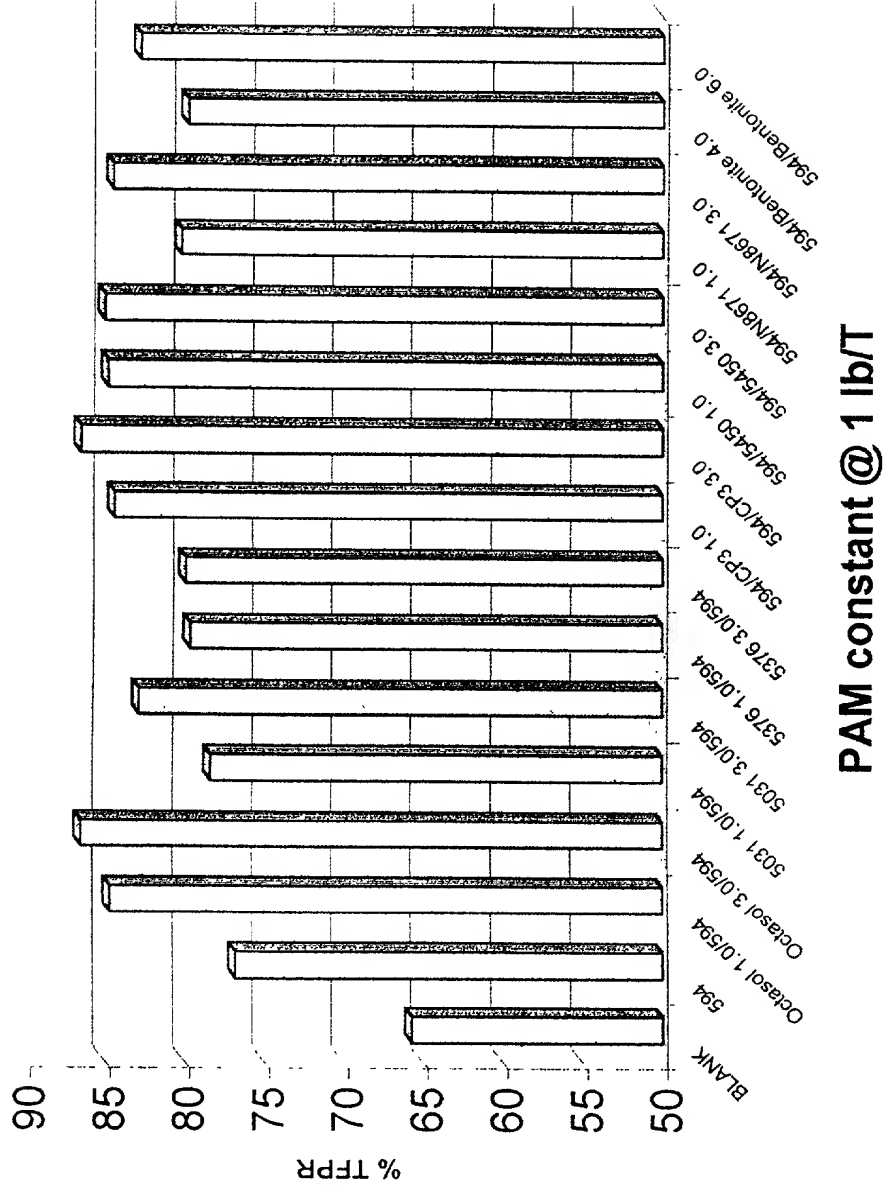


FIG. 24

Octasol testing: TFPR

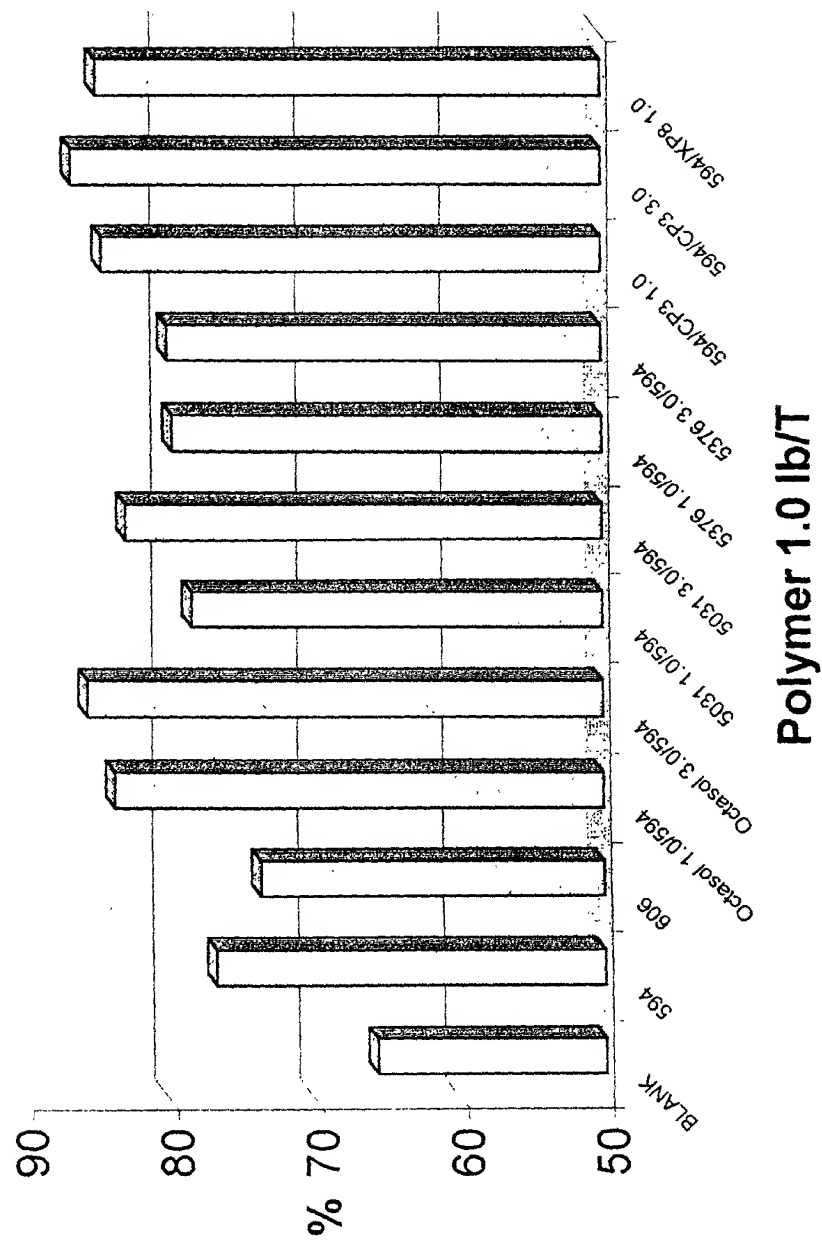


FIG. 25

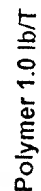
[illegible]

FIG. 26